

Appl. No. 10/652,325
Atty. Docket No. 9350
Amdt. dated 5/9/2005
Reply to Office Action of 3/25/2005
Customer No. 27752

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An apparatus for separating a ~~paper~~-web material at a line of weakness, the apparatus comprising:
 - a) a bedroll having a circumference, the bedroll being disposed such that the web material passes around at least a portion of the circumference of the bedroll in a direction of travel, wherein the bedroll is disposed generally transverse to the direction of travel of the web material, the bedroll comprising a shell and a bedroll chop off assembly, the bedroll chop off assembly comprising at least one web pin having a distal portion and at least one bedroll blade having a distal portion and a serrated web contacting edge, the bedroll blade being disposed generally transverse to the direction of travel of the web material, wherein the distal portions of the at least one bedroll blade and the at least one web pin ~~is~~-are capable of extending beyond the ~~circumference of the~~ shell of the bedroll, wherein the bedroll is capable of rotating at a first blade pass frequency,
 - b) a chop off roll disposed ~~proximally to the bedroll~~proximate and generally parallel to the bedroll, the chop off roll comprising at least one pin pad capable of circumferentially interfering with the at least one web pin, ~~and the chop off roll further comprising at least two chop off roll blades disposed generally transverse to the direction of travel of the web, the two blades disposed at a chop off roll blade spacing, the at least two chop off roll blades being capable of rotationally meshing with~~ at the at least one bedroll blade, the chop off roll being capable of rotating at a second blade pass frequency, wherein the second blade pass frequency is distinct from the first blade pass frequency.
2. (Cancelled)
3. (Currently Amended) The apparatus of claim 1 wherein the bedroll comprises at least three bedroll blades disposed at a bedroll blade spacing, generally transverse to the direction of travel at ~~a bedroll blade spacing~~

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4. (Original) The apparatus of claim 3 wherein the bedroll blade spacing is distinct from the chop off roll blade spacing.

5. (Currently Amended) The apparatus of claim 1 wherein the at least one web pin passes through at least a portion of the at least one web-pin pad.

6. (Cancelled)

7. (Currently Amended) The apparatus of claim 1 wherein the at least two chop off roll blades comprises ~~at least~~ three blades.

8. (Currently Amended) The apparatus according to claim 1 wherein the ~~chop off roll comprises a first plurality of web~~ at least one pin pad is capable of circumferentially interfering with at least ~~someone~~ one of the web pins, ~~the web pin pads disposed along a line generally transverse to the direction of travel, and wherein the at least two chop off roll blades comprise~~ at least three blades disposed generally parallel each to the others and generally transverse to the direction of travel of the web, ~~the blades disposed at a chop off blade spacing and wherein said chop off roll further comprises, a plurality of web pads disposed along a line generally transverse to the direction of travel of said web, and wherein~~ at least one of the three blades is capable of rotationally meshing with the at least one bedroll blades.

9. (Withdrawn) A method of separating a web material having a machine direction and across machine direction, along a line of weakness that is generally transverse to the machine direction, the method comprising steps of:

- a) providing a bedroll comprising at least one bedroll blade and at least one bedroll pin
- b) providing a chop off roll disposed proximal to the bedroll and generally parallel to the bedroll and spaced apart from the bedroll by a chop off gap, the chop off roll comprising at least two blades and at least one web pin pad,
- c) rotating the bedroll at a first blade pass frequency,
- d) rotating the chop off roll at a second blade pass frequency, wherein the second blade pass frequency is distinct from the first blade pass frequency,
- e) routing the web material through the chop off gap,
- f) penetrating the web material with the web pin,
- g) perforating at least a portion of the web pin pad with the web pin,
- h) rotationally meshing the chop off blades and at least one bedroll blade,

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i) separating the web at a line of weakness.

10. (Withdrawn) The method according to claim 9 comprising a step of perforating at least a portion of the web pin pad with a portion of the web.

11. (Withdrawn) The method according to claim 9 wherein the step of providing a chop off roll further comprises providing at least one blade having a serrated web contacting edge.

12. (Withdrawn) The method according to claim 9 wherein the step of providing a bedroll comprises providing a bedroll comprising at least three bedroll blades and a plurality of bedroll pins, and wherein the step of providing a chop off roll comprises providing a chop off roll disposed proximal to the bedroll and generally parallel to the bedroll and spaced apart from the bedroll by a chop off gap, the chop off roll comprising at least three blades and a plurality of web pin pads.

13. (Withdrawn) The method according to claim 12 comprising a step of penetrating at least a portion of the web pin pads with a portion of the web.

14. (Withdrawn) The method according to claim 9 wherein the step of providing a chop off roll further comprises providing at least one blade having a serrated web contacting edge.

15. (Withdrawn) The method according to claim 9 wherein the step of providing a bedroll further comprises providing at least one blade having a serrated web contacting edge.

16. (Withdrawn) A method of separating a web material having a machine direction and across machine direction, along a line of weakness that is generally transverse to the machine direction, the method comprising steps of:

a) providing a bedroll disposed such that web material passes around at least a portion of the circumference of the bedroll in a direction of travel, wherein the bedroll is disposed generally transverse to the direction of travel,
the bedroll comprising a shell having a circumference, and a bedroll chop off assembly comprising a plurality of web pins and at least three blades, the web pins and blades disposed generally transverse to the direction of travel, the blades disposed generally parallel each to the others and separated circumferentially by a bedroll blade spacing, the web pins disposed generally

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along a line substantially parallel to the blades, wherein the distal portions of the blades and the web pins are capable of extending beyond the circumference of the shell of the bedroll,

- b) rotating the bedroll at a first blade pass frequency,
- c) providing a chop off roll disposed proximally to the bedroll and generally parallel to the bedroll, the chop off roll comprising a first plurality of web pin pads capable of circumferentially interfering with at least some of the web pins, the web pin pads disposed along a line generally transverse to the direction of travel, at least three blades disposed generally parallel each to the others, and generally transverse to the direction of travel of the web, the blades disposed at a chop off blade spacing, a plurality of web pads disposed along a line generally transverse to the direction of travel, at least one of the blades capable of rotationally meshing with the bedroll blades,
- d) rotating the chop off roll capable at a second blade pass frequency distinct from the first blade pass frequency,
- e) routing the web material between the bedroll and the chop off roll,
- f) penetrating the web material with at least one web pin,
- g) perforating at least a portion of at least one web pin pad with at least one web pin,
- h) rotationally meshing the chop off roll blades with at least one bedroll blade,
- i) separating the web material at a line of weakness.

17. (Withdrawn) The method according to claim 16 comprising a step of perforating at least a portion of the web pin pad with a portion of the web.

18. (Withdrawn) The method according to claim 16 wherein the step of providing a chop off roll further comprises providing at least one blade having a serrated web contacting edge.

19. (Withdrawn) The method according to claim 16 wherein the step of providing a bedroll further comprises providing at least one blade having a serrated web contacting edge.

20. (New) An apparatus for separating a web material at a line of weakness, the apparatus comprising:

a) a bedroll having a circumference, the bedroll being disposed such that the web material passes around at least a portion of the circumference of the bedroll in a direction of travel, wherein the bedroll is disposed generally transverse to the direction of travel of the web material, the bedroll comprising a shell and a bedroll chop off assembly, the bedroll chop off assembly comprising at least one web pin having a distal portion and three bedroll blades having a distal

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portion disposed generally transverse to the direction of travel of the web material at a bedroll blade spacing, wherein the distal portions of the at least one bedroll blade and the at least one web pin are capable of extending beyond the shell of the bedroll,

wherein the bedroll is capable of rotating at a first blade pass frequency,

b) a chop off roll disposed proximate and generally parallel to the bedroll, the chop off roll comprising at least one pin pad capable of circumferentially interfering with the at least one web pin, the chop off roll further comprising at least two chop off roll blades disposed generally transverse to the direction of travel of the web at a chop off roll blade spacing, the at least two chop off roll blades being capable of rotationally meshing with the at least one bedroll blade, the chop off roll being capable of rotating at a second blade pass frequency, wherein the second blade pass frequency is distinct from the first blade pass frequency and wherein the bedroll blade spacing is distinct from the chop off roll blade spacing.

21. (New) The apparatus according to claim 20 wherein the at least one web pin passes through at least a portion of the at least one pin pad.

22. (New) The apparatus according to claim 20 wherein at least one bedroll blade further comprises a serrated web contacting edge.

23. (New) The apparatus according to claim 20 wherein the at least two chop off roll blades comprises three blades.

24. (New) The apparatus according to claim 20 wherein the at least one pin pad is capable of circumferentially interfering with at least one of the web pins, and wherein the at least two chop off roll blades comprise three blades disposed generally parallel each to the others and generally transverse to the direction of travel of the web, and wherein said chop off roll further comprises a plurality of web pads disposed generally transverse to the direction of travel of said web, and wherein at least one of the three blades is capable of rotationally meshing with the at least one bedroll blade.